

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P555885

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-93-96-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3LO-50-UNV-93-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

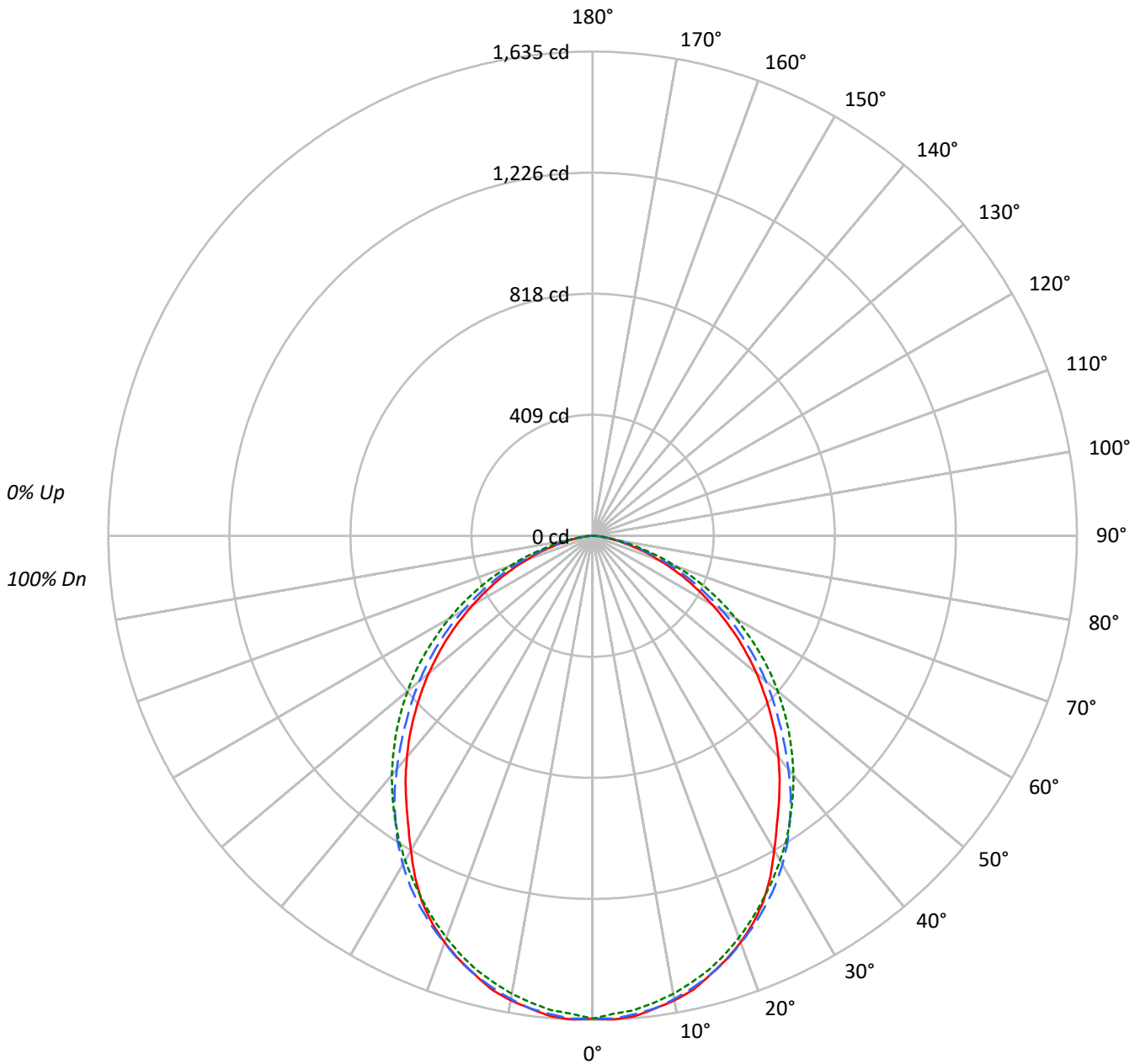
Lumens per Lamp: N/A
Luminaire Lumens: 3770.0 lumens
Efficiency: N/A
Efficacy: 107.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8775	8775	8775
5°	8798	8761	8687
10°	8705	8681	8582
15°	8551	8551	8453
20°	8369	8380	8273
25°	8094	8194	8064
30°	7622	7964	7867
35°	7202	7634	7646
40°	6852	7222	7411
45°	6460	6784	7132
50°	6047	6393	6828
55°	5577	5948	6459
60°	5022	5427	6007
65°	4436	4826	5465
70°	3696	4110	4642
75°	2905	3281	3635
80°	2077	2309	2563
85°	1352	1352	1278



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	4.1
10°-20°	431.3	11.4
20°-30°	630.2	16.7
30°-40°	715.4	19.0
40°-50°	690.6	18.3
50°-60°	569.7	15.1
60°-70°	379.4	10.1
70°-80°	169.8	4.5
80°-90°	30.4	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1215.0	32.2
0°-40°	1930.3	51.2
0°-60°	3190.5	84.6
0°-90°	3770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3770.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1630	1630	1630	1630	1630	
5°	1628	1628	1622	1613	1608	154
15°	1535	1538	1535	1528	1517	433
25°	1363	1374	1380	1370	1358	624
35°	1096	1111	1162	1168	1164	687
45°	849	863	891	932	937	655
55°	594	604	634	669	688	531
65°	348	358	379	406	429	345
75°	140	147	158	165	175	153
85°	22	22	22	21	21	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1630.4	1630.4	1630.4	1630.4	1630.4
2.5°	1634.8	1635.4	1631.7	1621.7	1615.4
5°	1628.5	1627.9	1621.7	1612.9	1607.9
7.5°	1610.4	1611.6	1609.8	1597.2	1590.3
10°	1592.8	1593.5	1588.5	1578.4	1570.3
12.5°	1570.3	1569.7	1562.8	1557.8	1544.6
15°	1534.6	1538.4	1534.6	1527.7	1517.1
17.5°	1500.1	1500.1	1502.6	1490.7	1482.6
20°	1461.3	1463.2	1463.2	1453.8	1444.4
22.5°	1416.2	1421.8	1423.7	1413.7	1402.4
25°	1363.0	1373.6	1379.9	1369.9	1358.0
27.5°	1298.5	1314.7	1333.5	1326.0	1312.9
30°	1226.4	1250.2	1281.5	1275.3	1265.9
32.5°	1158.1	1182.0	1225.2	1222.7	1217.7
35°	1096.1	1111.2	1161.9	1168.2	1163.8
37.5°	1037.3	1051.0	1098.6	1113.1	1109.3
40°	975.3	990.3	1027.9	1053.5	1054.8
42.5°	913.9	928.3	959.0	995.9	995.9
45°	848.7	863.1	891.3	932.0	937.0
47.5°	784.8	799.9	827.4	868.1	876.3
50°	722.2	736.0	763.5	803.0	815.5
52.5°	657.1	672.1	699.0	735.4	753.5
55°	594.4	604.4	633.9	669.0	688.4
57.5°	529.3	538.7	571.9	601.9	622.0
60°	466.6	478.5	504.2	534.9	558.1
62.5°	406.5	419.0	441.0	467.9	494.2
65°	348.3	357.7	379.0	405.9	429.1
67.5°	291.9	300.0	321.3	340.1	364.5
70°	234.9	245.5	261.2	279.4	295.0
72.5°	189.2	193.5	206.7	219.9	236.1
75°	139.7	147.2	157.8	165.4	174.8
77.5°	100.2	104.6	110.9	117.1	125.9
80°	67.0	68.9	74.5	75.8	82.7
82.5°	40.7	42.0	43.2	43.8	46.4
85°	21.9	21.9	21.9	20.7	20.7
87.5°	12.5	12.5	10.6	8.8	6.3
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)